SZARKOWSKI J. W.

5070. SZARKOWSKI J.W. *Trypsin-induced cresolase activity of tyrosinase BULL.ACAD.POLON.SCI. 1957, 5/1 (1-3) Graphs 2
Aqueous extracts of tyrosinase were obtained from fresh (one week) rye seeds. Such catecholase-active extracts, which were inactive to p-cresol acquired cresolase activity after 24 hr. incubation with trypsin. The simplest explanation is provided by Kendal's concept of 2 centres of tyrosinase activity.

Szabuniewicz - Gdańsk

SZARKOWSKI, J.

Main ways of respiratory metabolism in higher plants. p. 333

POSTEPY BIOCHEMI. (Polska Akademia Nauk. Komitet Bichemiczny)
Warszawa. Vol. 4, no. 3, 1958
Poland/

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959
Uncl.

HELLER, Jozef, prof. dr.; MOCHNACKA, Irena, prof. dr.; SZAFRANSKI,
Przemyslaw, doc. dr.; SZARKOWSKI, Jan Wlodzimierz, dr.

Letter to the editor concerning molecular biology. Kosmos biol
11 no.3:305-306 '62.

1. Zaklad Biochemii Ewolucyjnej, Instytut Biochemii i Biofizyki,
Polska Akademia Nauk, Warszawa.

SZARKOWSKI, J.W.; GOLASZEWSKI, T.;

Ribonucleic acid from plastides of etiolated plants.
Bul Ac Pol biol 11 no.3:123-124 '63.

1. Instytut Biochemii i Biofizyki, Polska Akademia Nauk,
Warszawa. Presented by J. Heller.

GOLASZEWSKI, T.; SZARKOWSKI, J.W.

Carrot ribonucleases. Acta soc botan Pol 33 no.4:749-758 '64.

1. Institute of Biochemistry and Biophysics of the Polish Academy of Sciences, Warsaw.

GOŁASZEWSKI, Tomasz; SZARKOWSKI, Jan.W.

The role of chloroplasts in protein and lipid metabolism.
Postepy biochem. 10 no.4: 491-501. '64

MIEDZINSKI, Franciszek; SZARMACH, Henryk

Certain unusual diseases of the lymphoblastic system in
dermatology. Przegl. derm., Warsz. 6 no.1:7-16 Jan-Feb 56.

1. Z Kliniki Dermatologicznej A. M. w Gdansku Dyrektor:
prof. dr Fr. Miedzinski Gdansk, Klinika Dermatologiczna
Akademii Medycznej, Debinki 7a.
    (LEUKEMIA, LYMPHATIC, pathology,
        skin (Pol))
    (HODGKIN'S DISEASE, pathology,
        skin (Pol))
    (SKIN, pathology,
        in Hodgkin's dis. & lymphatic leukemia (Pol))

KUROWSKI, Ludwik; SZARMACH, Henryk

Studies on the etiopathogenesis of ocular and cutaneous
facial changes in workers of the fur industry. Med. pracy
16 no.4:323-327 '65.

1. Z Kliniki Ocznej AM w Gdansku (Kierownik: doc. dr. J.
Morawiecki) i z Kliniki Dermatologicznej AM w Gdansku
(Kierownik: prof. dr. F. Miedzinski).

KALINOWSKI, Miroslaw; JUNGOWSKA, Anna; SZARMACH, Henryk

A case of extensive osseous changes in the course of recurrent
secondary syphilis. Pol. tyg. lek. 20 no.19:694-695   10 My '65.

1. Z II Kliniki Chorob Wewnetrznych AM w Gdansku (Kierownik:
prof. dr. med. J. Penson), z Kliniki Radiologii i Radioterapii
AM w Gdansku (Kierownik: vacat) i z Kliniki Dermatologicznej
AM w Gdansku (Kierownik: prof. dr. med. F. Miedzinski).

SZARMACH, Henryk

On the problem of the clinical picture of Nonne-Meige-Milroy disease.
Przegl. derm. 48 no.2:103-112 '61.

1. Z Kliniki Dermatologicznej AM w Gdansku Kierownik: prof. dr F.
Miedzinski.

(LYMPHEDEMA case reports)

KOZAKIEWICZ, Jerzy; SZARMACH, Henryk

Effect of ethyl gasoline on the skin in the light of experimental
and clinical studies. Przegl. derm. 48 no.8/10:381-390 '61.

1. Z Kliniki Dermatolgicznej A.M. w Gdansku Dyrektor: Prof. dr
Fr. Miedzinski.
            (PETROLEUM toxicol)   (SKIN dis)

SZARMACH, Henryk; CZERNIEWSKA-ZAWROCKA, Krystyna

Vascular and hemorrhagic changes in purulent diseases of the skin.
Przegl. derm. 49:147-149 '62.

1. Z Kliniki Dermatologicznej AM w Gdansku. Kierownik: prof. dr
F. Miedzinski. Z Zakladu Mikrobiologii AM w Gdansku, Kierownik:
prof. dr S. Krynski.
     (PYODERMA)   (DERMATITIS)   (GANGRENE)   (HEMORRHAGE)
                          (VASCULAR DISEASES)

KOZAKIEWICZ, Jerzy; SZARMACH, Henryk

Evaluation of griseofulvin treatment in trichophytosis profunda in the lifht of clinical and histological studies. Przegl. derm. 51 no.3:263-269 My-Je '64

1. Z Kliniki Dermatologicznej Akademii Medycznej w Gdansku (Kierownik: prof. dr. F.Miedzinski).

DENES, Janos, dr.; THUR, Antal, dr.; SZARNYASI, Margit, dr.

Meningo- and myelomeningocele (follow-up study of 80 cases). Orv.
hetil. 102 no.1:22-25 1 Ja '61.

1. Budapesti Istvan Korhaz, Gyermeksebeszeti Osztaly.
      (ENCEPHALOCELE statist)

SZARO, A.; OGIELSKI, L.; PIWOWAR, A.

"Freezing Poultry in Low Temperatures." p. 16, (MEDYCYNA WETERYNARYJNA, Vol. 10, No. 1, Jan 1954, Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May, 1955, Uncl.

BATYCKI, Wojciech; SZARO, Alfred

Role of the avian type of bacilli in the epidemiology and epizootiology of tuberculosis. Gruzlica 31 no.6:730-733 Je'63.

1. Wojewodzka Przychodnia Przeciwgruzlicza, Wroclaw.

SZULGA, Teofil; SZARO, Alfred; MADRA, Janina; KOWALCZYK, Halina

Classification of acid-fast bacilli isolated from the milk of
cows and from sewage used for fertilizing pastures. Pt.2. Arch.
immun. ther. exp. 13 no.3:331-335 '65.

1. Department of Mycology, Institute of Immunology and Experimental
Therapy, Polish Academy of Sciences, Wroclaw; The Provincial Tuber-
culosis Dispensary in Wroclaw.

TOTH, Karoly, dr.; SZABO, Imre, dr.

Lower free-end prosthesis using immediate implantation of a
pillar tooth with metal root. Fogorv. szemle 58 no.9:272-276
S '65.

1. Kozlemeny a Szegedi Orvostudomanyi Egyetem II. sz. Fog- es
Szajbeteg Klinikajarol (Igazgato: Toth, Karoly, dr., egyetemi
tanar).

SZABO, Imre, dr.; CANJAVEC, Elek, dr.

Dental status of the inhabitants of a collective farm community
(Öttömös) in the Szeged region. Fogorv. szemle 58 no.10:289-296
O '65.

1. Kozlemeny a Szegedi Orvostudomanyi Egyetem II. sz. Fog- es
Szajbeteg Klinikajarol (igazgato: Toth,Karoly,dr. egyetemi tanar).

SZARCTA, J.

SZARCTA, J. The k205 laboratory oscilloscope produced in Poland. p. 153.

Vol. 1, No. 4, Nov. 1956.
TELE-RADIO
TECHNOLOGY
Warszawa, Poland

So: East European Accession, Vol. 6, No. 2, Feb. 1957

Quenching elements manifacture of light alloys. p. 240

vol. 11, no. 7, July 1954

Monthly

90. vol. 5, no. 1) Oct. 1956

SZAROWICZ, T. and M. ORMAN.   POLAND

"Technology of the Production of Metallic Lithium Under Reduced Pressure," Prace Instytutow Ministerstwa Hutnictwa, No. 5-6, Ministry of the Metallurgical Industry, 1955.

Czarnowicz, T.

Production of metallic lithium on a laboratory scale
under reduced pressure

SZARCWICZ, T.; WAJCZYKOWSKI, S.

SZARCWICZ, T.; WAJCZYKOWSKI, S. Refining aluminum alloys by means of chorine. Biuletyn.
p. 45.
Index to v. 22, 1955.

Vol. 22, No. 12, Dec. 1955.
HUTNIK
TECHNOLOGY
Ketowice, Poland

So: East European Accession, Vol. 5, No. 5, May 1956

LEWINSKA, A.; SZARRAS, D.

    Utility functions of fabrics in the apartment interior. Przegl
wlokien 16 no.5:Suppl.:Biul inst wzorn przem 12 no.2:2-5 My '62.

POL. 2

Experiments on fusing and casting of basalts of Silesia (Poland). Stanislaw Szarras (Tech. Univ., Warsaw). *Zeszyty Nauk. Politech. Warsaw.* No. 9, Chem. No. 1, 63–87(1954).—Silesian basalts can be fused at approx. 1350° and then cast; in certain instances they replace cast iron and even certain Ni-Cr alloy steels. The softening temp. of the tested basalts was between 1080 and 1180°. The lowest m.p. 1210–1250° showed basalts contg. nepheline; they were from Želowice and Proszkowa. All basalts contained olivine and magnetite, which were the centers of crystn. in the fused basalts; other components did not contribute substantially to the formation of crystals. Addn. of marble favored crystn. but probably decreased the strength of castings. The optimum temp. of the fusing furnace should be 1350°. Below this temp. because of the olivines the structure of the casting is unhomogeneous. Too high temp. destroys the crystn. centers. The basalts should be kept for some time at the above optimum temp. to enable the entrained air to escape. The casting forms were preheated and after having been filled with molten basalt were placed for 1–2 hrs. in a furnace of 650–920°. The castings made from basalt from Pielgrzymka were the best as far as impact strength and resistance to attrition were concerned. S. thinks that burnt magnesite is the best material of construction for the furnace. The application of the fused basalts is: water dams, bridge pillars, rollers for grinding mills, balls for ball mills, water and sewage conduits, chem. reaction vessels, tubs used in electrolysis, tanks, dust chambers, etc. The fused basalt being an excellent dielectric can also be applied in elec. and electrometallurgical industries.
                                          F. J. Hendel

L 37011-66

ACC NR: AP6023652   SOURCE CODE: PO/0046/66/011/006/0393/0398

AUTHOR: Auleytner, Julian — Auleytner, Yu; Krylow, Janusz — Krylov, Ya.;
Psoda, Marek; Szarras, Stanislaw — Sharras, S.

ORG: [Auleytner, Krylow] Institute of Physics, Polish Academy of
Sciences, Warsaw;   [Psoda] Institute of Experimental Physics, Warsaw
University, Warsaw;   [Szarras] Department of Nuclear Physics,
Institute of Nuclear Research, Swierk

TITLE: X-ray studies of neutron bombardment influence on the real
structure of germanium

SOURCE: Nukleonika, v. 11, no. 6, 1966, 393–398

TOPIC TAGS: germanium, germanium single crystal, crystal structure
analysis, neutron irradiation, irradiation effect , neutron bombardment,
crystal dislocation, plastic deformation

ABSTRACT: An investigation was made of the dislocation distribution
and density in undeformed and plastically deformed germanium single
crystals before and after irradiation with a fast neutron dose of
about 2 x 10^{19} neutrons/cm^2. Four Ge single crystal specimens were
used. The specimens were mechanically cut along the (111) plane,
polished, and etched. The initial dislocation density in specimens

Card 1/2

L 37011-66

ACC NR: AP6023652

3

Ge-1 and Ge-2 was about $10^3/cm^2$. Specimens Ge-3 and Ge-4 were plastically deformed by bending at 600C. Ge-4 was then flattened at 600C. A microfocus x-ray tube and a camera with oscillating crystal and film were used. For each specimen a set of photographs was taken before irradiation and after irradiation. No changes in dislocation density were observed in undeformed Ge-1 and Ge-2 specimens. This was probably due to the fact that the method used made it possible to determine the dislocation density only above 10^4 to 10^5 dislocations/ cm^2. In specimens Ge-3 and Ge-4 the mean disorientation of surface elements and the mean size of the blocks appearing during plastic deformation were not changed (they were 30 to 40 sec of arc and about 50 μ, respectively). The dislocation density within the biggest blocks increased slightly. Both increases and decreases were observed in the disorientation angle between blocks after neutron irradiation. However, the mean value of changes shows a small increase in disorientation. The changes observed in the disorientation angle are attributed to the introduction of Brinkman's displacement spikes in the germanium single crystals during irradiation. These spikes are described as regions with a lattice configuration differing from that of the surrounding material. It is possible that the vacancies created during irradiation migrate to the block boundaries and that a change of disorientation between neighbouring blocks occurs in the annihilation process. The authors thank Professor B. Buras for his valuable remarks, Dr. T. Bedynska for discussions, and R. Stojanowski for technical assistance. Orig. art. has: 3 formulas, 3 figures, and 1 table. [JA]

SUB CODE: 20/ SUBM DATE: 13Jan66/ ORIG REF: 004/ OTH REF: 003/ ATD PRESS: 5035

Card 2/2

SZARRAS, S.

Advances in basalt casting in Poland. p. 14
   BUDOWNICTWO PRZEMYSLOWE. (Ministerstwo Budownictwa Przemyslowego) Warszawa,
Vol. 4, No. 10, Oct. 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress,
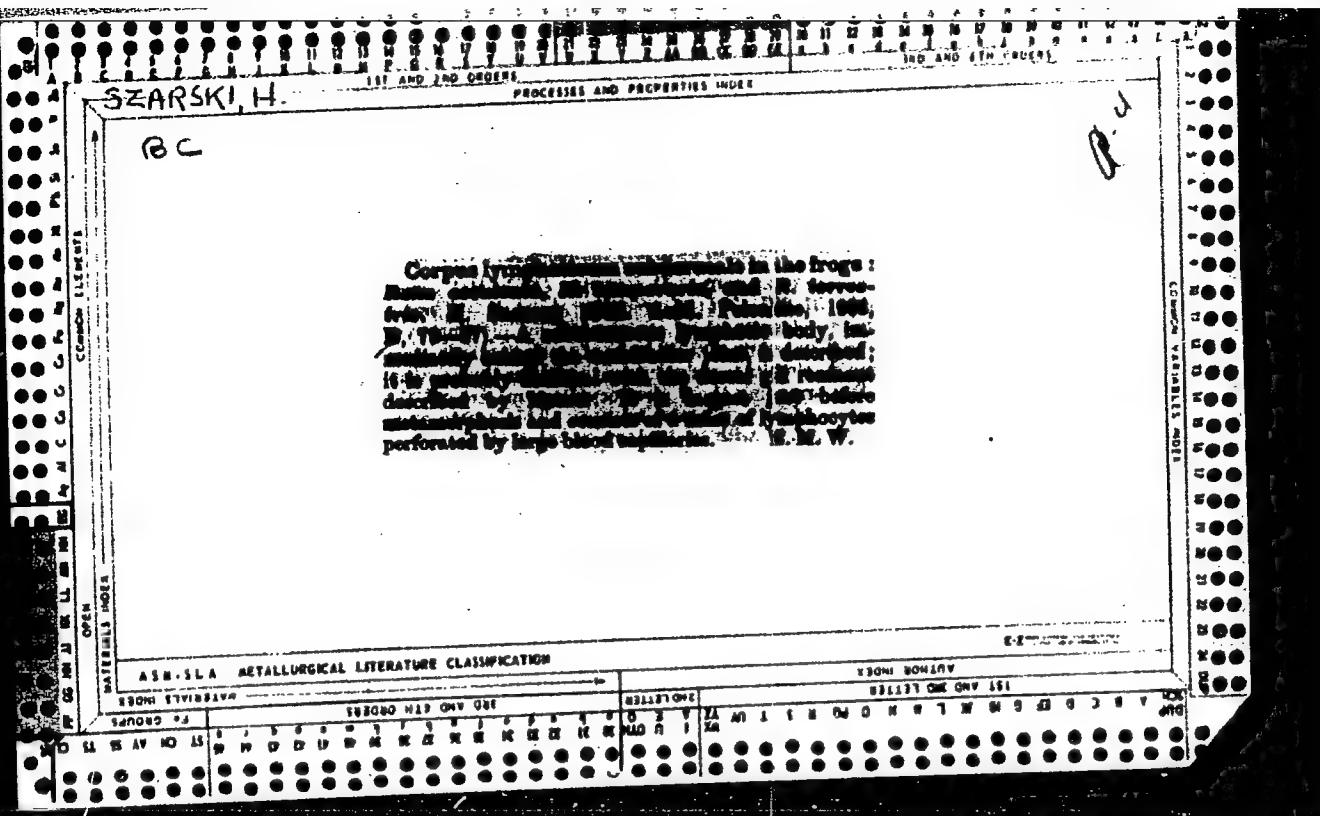   Vol. 5, No. 7, July 1956.

SZARRAS, S.; CIEPLINSKI, W.

The basalt foundries in Czechoslovakia and Poland. p.36.
BUDOWNICTWO PRZEMYSLOWE (Ministerstwo Budownictwa Przemyslowego) Warszawa
Vol. 5, no. 1, Jan. 1956

So. East European Accessions List   Vol. 5, No. 9   September 1956

SZMID, Zofia; SZARRAS, Stanislaw

X-ray observation of Al-single crystals under fast neutron
bombardment. Nukleonika 8 no.6:385-390 '63.

1. Institute of Nuclear Research, Warszawa-Swierk, Department
of Nuclear Physics.

SZARSKI, H.

BC

Corpen lytto..... in the frogs :

perforated by large blood capillaries. ... H. M. W.

SZARSKI, H.

a-4

Blood vessels of thymus gland in some of the Urodela. H. Szarski (Bull. Acad. Polonaise, 1938, B, II, 305—315).—In metamorphosed animals thymic arteries arise from the ductus arteriosus or from the aorta in its vicinity. Accessory arteries arise from the ascending pharangeal. The main venous return in all species studied was via the vena cutanea parva into the external jugular vein. In all urodeles there is a tendency for the vessels to spread over the surface of the gland, forming in some a dense network of sinusoidal capillaries. Capillary diameters are recorded for certain species, W. F. H.

SZARSKI, Henryk

Classification of the connective tissue. Fol. morph., Warsz.
5 no.3:231-233 1954.
    (CONNECTIVE TISSUE, anatomy and histology,
       classif.)

S.....KI, ..

Causes of the absence of a stomach in <u>Cyprinidae</u>. p. 155.
ACTA PHYSICA POLONICA. Warszawa Vol. 4, No. 4, 1956.

East European Accessions List (EEAL) Library of Congress
Vol. 5, No. 11, August 1956.

POLAND / Human and Animal Morphology (Normal and Pathological).   S
Methods and Techniques of Investigation,

Abs Jour : Ref Zhur - Biologiya, No 1, 1959, No. 2862

Author   : Szarski, Henryk
Inst   : Not given
Title   : Possibility of Utilization of Methacrylates and
            Polyvinyl Alcohol in Anatomical Techniques

Orig Pub : Folia morphol., 1956, 7, No 2, 139-148

Abstract : Dehydrated objects may be included in partially
            polymerized butyl methacrylate which is later brought
            to full polymerization by ultraviolet irradiation.
            Utilization of aqueous solutions of polyvinyl alcohol
            is recommended for inclusion of non-dehydrated objects.
            -- A. M. Zubin

Card 1/1

SZARSKI, H.

SCIENCE

Periodical: KOSMOS. SERIA A: BIOLOGIA. Vol. 7, no. 3, 1958.

SZARSKI, H.   I. I. Szmalgauzen's article "The History of the Origin of
              Amphibia." p. 342.

Monthly List of East European Acessions (EFAI), LC, Vol. 8, No. 3, May 1959
                                                             Unclass.

SZARSKI, Henryk

      Zygmunt Grodzinski. Nauka polska 8 no.3:117-121 Jl-S '60.

      1. Uniwersytet im. Mikolaja Kopernika, Torun.

SZARSKI, Henryk

Amphibians invade new environments. Przegl zoolog 6 no.3.218-221
'62.

1. Zaklad Zoologii Ogolnej, Uniwersytet Mikolaja Kopernika, Torun.

SZARSKI, Henryk

Marginal note on H.J. Marchlewski's bibliography.   Przegl zoolog 6
no.3:237 '62.

SZARSKI, Henryk

"Principles of animal taxonomy" by G.G.Simpson.
Reviewed by Henryk Szarski. Kosmos Biologia 11 no.2:188-192 '62

SZARSKI, Henryk

"The form and function of the fore-gut in Anura larvae (Amphibia, Salientia) with particular reference to the manicotto glandulare" by I.Griffiths. Reviewed by Henryk Szarski. Kosmos biol 11 no.3:317-319 '62.

SZARSKI, Henryk, prof. dr

Impressions from visiting the United States universities
and colleges. Problemy 18 no.10:696-707 '62.

1. Kierownik Katedry Zoologii Ogolnej, Uniwersytet
Mikolaja Kopernika, Torun.

SZARSKI, Henryk

Remarks on biophysics. Kosmos biol 12 no.1:47-48 '63.

SZARSKI, Henryk, prof. dr

Remarks on the university curriculum of biological studies.
Kosmos biol 12 no.2:160-165 '63.

"The ecology and life history of the common frog" by R.Maxwell
Savage. Reviewed by Henryk Szarski.   166-168

SZARSKI, Henryk

> Biology studies in an American university. Kosmos biol 12
> no.6:505-512 '63.

SZARSKI, Henryk

The Sixteenth International Congress of Zoology in Washington
D.C. Kosmos biol 13 no.1:89-93 '64

JAKUTOWICZ, Konstancja; ILCZUK, Zdzislaw; KNYPL, J.S.; WISNIEWSKA, Justyna M.;
    SZARSKI, Henryk

Abstracts. Kosmos biol 14 no.1:63-92 '65.

SZARSKI, Jan

Electric dictionaries issued by the Scientific and Technological
Publishing Agency. Wiad elektrotechn 32 nc.7:210-211   Jl '64.

SZARSKI, J

Szarski, J., et Ważewski, T. Sur la relation entre le module d'un déterminant complexe et son déterminant réel, associé. Application à la théorie des formes hermitiennes et à celle des modules des matrices complexes. Ann. Soc. Polon. Math. 20 (1947), 1–6 (1948).

If $M = A + iB$ is a complex matrix, the correspondence

$$M \leftrightarrow M^* = \begin{bmatrix} A & -B \\ B & A \end{bmatrix}$$

is an isomorphism. From the identity

$$\det (M^* - \lambda I) = \det (M - \lambda I) \cdot \det (\overline{M} - \lambda I)$$

it follows that $|\det M^*| = |\det M|^2$ and that the characteristic roots of M^* are those of M and their conjugates. If M is Hermitian, M^* is symmetric. If $\sum h_{ik} x_i \bar{x}_k \leqq \sum h'_{ik} x_i \bar{x}_k$, both forms being Hermitian with respective characteristic roots $\lambda_1 \leqq \cdots \leqq \lambda_n$, $\lambda_1' \leqq \cdots \leqq \lambda_n'$, it is shown that $\lambda_i \leqq \lambda_i'$.

C. C. MacDuffee (Madison, Wis.)

SZARSKI, J

Szarski, J. Sur une méthode d'approximation des fonc-

SZARSKI J.

SZARSKI, J.

Ważewski, T., et Szarski, J. Sur l'unicité des intégrales de l'équation de Clairaut, modifiée. Ann. Soc. Polon. Math. 20 (1947), 157–160 (1948).

The authors prove that if $f(x, y)$ is continuous in a rectangle R and has the property that, through every point of R, there passes a line segment which is an integral of the differential equation $y' = f(x, y)$, then these line segments are the only integrals of the differential equation. This result is contained in a general theorem of E. R. van Kampen [Amer. J. Math. 59, 144–152 (1937)]; van Kampen's theorem also answers affirmatively the question raised by the authors concerning the possibility of extending the above uniqueness theorem to systems.   *P. Hartman.*

Source: Mathematical Reviews,   Vol *10*   No. *2*

SZARSKI, J.

[Szarski, J.]   Sur une propriété a ... de... les ... intégrales

possesses a continuation over the interval $0 \leq x \leq x_0$. Then the set of points $(0, y_1, \ldots, y_n)$ of E reached by at least one solution which is defined for $0 < x < \infty$ is a nonempty closed connected set.   *P. Hartman* (Baltimore, Md.).

Source: Mathematical Reviews,   Vol 10   No.

If z_1, z_2 are two solutions of the equation

$$p_t = f(x_1, \cdots, x_n; p_1, \cdots, p_n; z),$$

where $p_i = \partial z / \partial x_i$, this paper gives sufficient conditions that
$z_1(a, x_2, \cdots, x_n) < z_2(a, x_2, \cdots, x_n)$ imply

$$z_1(x_1, x_2, \cdots, x_n) < z_2(x_1, x_2, \cdots, x_n)$$

for $x_1, \cdots, x_n$ in a certain set. It also gives generalizations
for additional unknowns and additional equations.

J. M. Thomas (Durham, N. C.).

Source: Mathematical Reviews.   Vol. 11 No. 9

SLARSKI, J.

Jacek. On an oscillatory property of success
inations. Ann. Soc. Polon. Math. 22 (1949), 2
50).

$y^1, \cdots, y^n$) be continuous functions for $a \leq t$
ry $(y^1, \cdots, y^n)$ with the property that for some
$k \leq n$, the functions f^i and $-f^i$ for $i=1$,
$+1, \cdots, n$ are nonincreasing functions of ω
ariables $y^1, \cdots, y^k$ and $-y^{k+1}, \cdots, -y^n$
$y^i(t)$ be a solution of the system $y^{i'}=f^i$
n and $a \leq t \leq b$. Finally, let

$$= y^i(a) + \int_a^t f^i(u, y^1 - z(k), \cdots, y^n - z(n)) \, du,$$

$1, \cdots, n$, $\nu = 1, 2, \cdots$; and $y^i_0(t), \cdots, y^n_0(t)$
 functions for $a \leq t \leq b$ with the properties $($
nces $y^i(t) - y^i_0(t)$ and $y^i_0(t) - y^i(t)$ are of
ant sign, say ϵ ($\nu + 1$ or -1), for $i = 1$,
$1, \cdots, n$. Then for $\nu = 0, 1, \cdots$, the differen
$($ and $y^i_{\nu}(t) - y^i(t)$ are of the same constant $\cdots$
$i = 1, \cdots, k$ and $j = k + 1, \cdots, n$. This $\cdots$
ore of Wintner's [Mат. Tidsskr. A, 1948, 22
10, 455] dealing with the equation $y'' + f(y)$
P. Hartman (Baltimore, Md.)

Szarski, J. Sur les systèmes majorants d'équations différentielles ordinaires. Ann. Soc. Polon. Math. 23, 206–223 (1950).

Analogues of a theorem of Ważewski [see (3) in the preceding review] are proved. E.g. Let Ω be an open set in an $(n+1)$-dimensional Euclidean space such that for each t_0 the set of $(y_1, \cdots, y_n)$ for which $(t_0, y_1, \cdots, y_n)\epsilon\Omega$ is convex. Let $f_i(t, y_1, \cdots, y_n)$, $i=1, \cdots, n$, be continuous in Ω together with their first partial derivatives. Then in order that

SZARSKI, J.

(1)

2
0
0
0

Szarski, J. Sur les systèmes d'inégalités différentielles ordinaires remplies en dehors de certains ensembles. Ann. Soc. Polon Math. 24 (1951), no. 2, 1-8 (1954).

The inequalities considered have the form $D^+y^i \leq f^i(x, y^1, \cdots, y^n)$, where D^+ denotes the upper right derivate with respect to x. Let z^i be an upper integral of $z^{i\prime} = f^i(x, z^1, \cdots, z^n)$. The paper gives a sufficient condition that $y^i \leq z^i$. J. M. Thomas (Durham, N. C.).

10-28-54 LL

SZANYI, J.

SZANYI, J.; HAZEWSKI, T. "Method of comparison of hyperbolic equations of partial derivative. of the second order with ordinary differential equations."
Bulletin, Varsovie, Vol 1, No 1/2, 1953, p. 6

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

SZARSKI, J.

Szarski, J., et Wazewski, T. Sur une méthode de comparaison des équations hyperboliques aux dérivées partielles du second ordre avec les équations différentielles ordinaires. Bull. Acad. Polon. Sci. Cl. III. 1, 6–10 (1953).

Let $H(u) = \sum_{i,k=1}^{m} a_{ik}(x_1, \cdots, x_m) \partial^2 u / \partial x_i \partial x_k$ be a totally hyperbolic operator with x_m the distinguished direction, and consider the differential inequality

$$|H(u)| \leq \sum_{j=1}^{m} |b_j(x_1, \cdots, x_m)| \left| \frac{\partial u}{\partial x_j} \right|$$
$$+ |c(x_1, \cdots, x_m)| \cdot |u| + |f(x_1, \cdots, x_m)|.$$

For functions u satisfying such an inequality the authors state an estimate for the integral

$$\int \left(\sum_{i=1}^{m} (\partial u / \partial x_i)^2 + u^2 \right) dx_1 \cdots dx_{m-1}$$

where the range of integration is in a portion of the hyperplane $x_m = $ const. With the aid of this estimate a uniqueness theorem and the continuous dependence on initial values are stated for solutions of the hyperbolic equation $H(u) = f(x_1, \cdots, x_m, u, \partial u / \partial x_1, \cdots, \partial u / \partial x_m)$. The estimate for the above integral generalizes similar inequalities obtained previously by Friedrichs and Lewy [Math. Ann. 98, 192–204 (1927)] and Sobolev [The equations of mathematical physics, 2nd ed., Gostehizdat, Moscow-Leningrad, 1950, p. 303; these Rev. 13, 42]. *M. H. Protter.*

SZARSKI, J.

1/2

Szarski, J. Systèmes d'inégalités différentielles aux dé-
rivées partielles du premier ordre, et leurs applications.
Ann. Polon. Math. 1, 149–165 (1954).

Inequality

Dans un travail précédent [Ann. Soc. Polon. Math. 24,
no. 2, 9–16 (1954); ces Rev. 15, 626], l'auteur a montré
l'existence et l'unicité de la solution du "problème de
Cauchy" pour un système et des données satisfaisant à des
conditions générales de régularité (existence de dérivées
continues bornées, jusqu'au 3ème ordre), de la forme

$$\frac{\partial u_1}{\partial x} = f_1\left(x,\, y,\, u_1,\, u_2,\, \frac{\partial u_1}{\partial y} \right), \quad \frac{\partial u_2}{\partial x} = f_2\left(x,\, y,\, u_1,\, u_2,\, \frac{\partial u_2}{\partial y} \right),$$

et pour ceux de forme analogue générale, les u étant en
nombre quelconque m, les variables y er nombre quelconque
n. Dans un autre travail [ibid. 21, 7–25 (1948); ces Rev. 10,
195?, il avait considéré les systèmes d'inégalités obtenues en
remplaçant le signe $=$ par le signe $<$ dans toutes les relations
du système de la forme générale indiquée; il avait démontré
que, sous certaines hypothèses simples, les inégalités

$$u_i(x,\, y_1,\, \ldots,\, y_n) < c_i(x,\, y_1,\, \ldots,\, y_n)$$

supposées vraies pour x_1 restent vraies dans tout un domaine
fixé d'avance, et il avait appliqué ce résultat aux solutions

SZAHSKI, J.   2/2

du système général d'équations indiqué plus haut.

La présente note est consacrée à des généralisations au cas où, au lieu d'une seule variable tenant le rôle de x, il y en a un nombre quelconque k. On arrive finalement au résultat suivant: Soit le système d'équations

$$\frac{\partial u_\mu}{\partial x_\iota} = g_\iota^\mu\left(x_1, \cdots, x_k, y_1, \cdots, y_n, u_1, \cdots, u_m, \frac{\partial u_1}{\partial y_1}, \cdots, \frac{\partial u_m}{\partial y_n}\right)$$

$$(\mu = 1, 2, \cdots, m, \iota = 1, 2, \cdots, k)$$

où les g et les données initiales (valeurs de u pour x_1^0, $x_2^0, \cdots, x_k^0$) satisfont à des conditions générales de régularité; sous certaines hypothèses simples, les inégalités

$$u_\mu(x_1, \cdots, x_k, y_1, \cdots, y_n) \leqq v_\mu(x_1, \cdots, x_k, y_1, \cdots, y_n)$$

supposées vraies pour le système initial, $x_1^0, x_2^0, \cdots, x_k^0$, subsistent dans tout un domaine fixé d'avance.

M. Janet (Paris).

SZARSKI, J.

Szarski, J. Sur un système d'équations aux dérivées partielles du premier ordre complètement intégrable. Ann. Soc. Polon. Math. 24 (1951), no. 2, 9–16 (1954).

The system treated is of the Koenig type and passive [Riquier, Les systèmes d'équations aux dérivées partielles, Gauthier-Villars, Paris, 1910, p. xv]. In a region defined by specific inequalities the present paper proves the existence of a unique solution of class C'' on the assumption that system and initial determination are of class C'''.

J. M. Thomas (Durham, N. C.).

SZARSKI, J.

Szarski, J. Evaluation du domaine de régularité du conoïde
caractéristique Ann. Soc. Polon. Math. 24 (1951) no. 2.

n-periodic partial differential equations

$$\sum_{i,k=1}^{n} a_{ik}(x_1, \cdots, x_m)\frac{\partial^2 u}{\partial x_i \partial x_k} = 0 \quad (a_{ik}=a_{ki})$$

with coefficients which are at least of class C^2 within a
sphere $\sum_{i=1}^{n} x_i^2 \leq R^2$. Most of the discussion is concerned
with the special case in which $a_{im}=0$ $(i=1, \cdots, m-1)$, x_m
being the time-like variable, and is based upon estimates
which are obtained for the solutions of the bicharacteristic
equations and for certain of their derivatives. It is seen in
this case that the conoid will be of class C', and can be
represented as $x_m = \phi(x_1, \cdots, x_{m-1})$, in a neighborhood
$S: \sum_{i=1}^{m-1} x_i^2 < \delta^2$ of 0 with a radius δ which depends upon the
following quantities: m, R, bounds for the a_{ik} and for their
first and second partial derivatives, and bounds for the eigen-
values of the characteristic quadratic form $\sum_{i,k=1}^{m-1} a_{ik}\lambda_i\lambda_k$. (over)

2/2

SZARSKI, J.

A lower bound for the altitude of the conoid in the neighborhood S also is determined by these quantities. The general case is reduced to the special case by a suitable change of coordinates, and analogous results are obtained. For this purpose, the a_{ij} are assumed to be of class C^3, however, and the ensuing estimates depend upon bounds for the third derivatives of these coefficients in addition to the previously mentioned quantities. [Brazil, New York, N. Y.]

SZARSKI, J.

Szarski, J. Sur la limitation et l'unicité des solutions d'un système non-linéaire d'équations paraboliques aux dérivées partielles du second ordre. Ann. Polon. Math. 2 (1955), 237–249 (1956).

The non-negative continuous function $\sigma(t, y)$ on the set $0 < t < T$, $y \geq 0$, is assumed to be such that the only solution of $dy/dt = \sigma(t, y)$, $\lim_{t \to t_1} y(t) = 0$, $0 \leq t_1 < t$, is $y \equiv 0$.

For short, set

$$z_j{}^i = \partial z^i / \partial x^j, \quad z_{jk}{}^i = \partial^2 z^i / \partial x^j \partial x^k,$$

$$f_i(t; x_1, \cdots, x_n; z^1, \cdots, z^m; z_1{}^i, \cdots, z_n{}^i; z_{11}{}^i, \cdots, z_{nn}{}^i) \equiv$$
$$f_i(t; x; z; z_j{}^i; z_{jk}{}^i) \quad (i = 1, \cdots, m; j, k = 1, \cdots, n).$$

If for all values of r_{jk}, $\bar{r}_{jk}$ such that $\sum_{j,k=1}^{n} (r_{k} - \bar{r}_{jk})\lambda_j\lambda_k \leq 0$ (all $\lambda_1, \cdots, \lambda_n$) each f_i satisfies the inequality

$$f_i(t; x; z; p_j{}^i, r_{jk}) - f_i(t; x; z; p_j{}^i; \bar{r}_{jk}) \leq 0,$$

then the set of equations

1 - F/W

1/2

SZARSKI, J.

$$(*) \qquad \frac{\partial z^i}{\partial t} = f_i(t; x; z; x_j{}^i; z_{jk}{}^i)$$

is referred to as a parabolic system. (Note that f_1 does not depend on the derivatives of $z^1, \cdots, z^{i-1}, z^{i+1}, \cdots, z^m$.) Let I denote the interval $0 < t < T$, G an open and bounded domain in the space of the variables $x_1, \cdots, x_n$ and $R = I \times G$ the topological product of I and G. Finally let R^* denote that part of the boundary of R which lies below $t = T$. For several boundary-value problems associated with $(*)$ the author gives conditions on the f_i that will insure the existence of at most one solution. We note here only one example of his results. If the f_i satisfy the inequalities

$$|f_i(t; x; u; p_j{}^i; q_{jk}{}^i) - f_i(t; x; v; p_j{}^i; q_{jk}{}^i)| \leq \sigma(t, \max_j |u_j - v_j|),$$

then, in the class of functions which belong to C'' on R and C^0 on the closure of R, there is at most one solution in R of the parabolic system $(*)$ taking on preassigned values on R^*. [This is a generalization of a theorem of L. Giuliano, Atti Accad. Naz. Lincei. Rend. Cl. Sci. Fis. Mat. Nat. (8) 12 (1952), 260–265; MR 13, 948.]

F. G. Dressel (Durham, N.C.).

SZARSKI, Jacek

     Tadeusz Wazewski; a biographical sketch. Nauka Polska 9 no.3:79-81
'61.

     1. Uniwersytet Jagiellonski.

SZARSKI, J. (Krakow)

Stanislaw Zaremba; 1863 - 1942. Rocz wiad matem 5:15-28
'61.

SZARSKI, J. (Krakow)

Remark on the unity criterion of the integrals of an ordinary differential equation. Annales pol math 12 no.2:203-205 '62.

MILEWSKI, S., inz.; SZARSKI, J.-

More on the Maritime Dictionary. Bud okretowe Warszawa 8 no.1:3
Ja '63.

1. Rektorzy Dzialu Slownictwa Technicznego Wydawnictwa Naukowo-
Technicznego, Warszawa.

SZARSKI, J.

Nonlinear system of parabolic differential inequalities. Annales
Pol math 40 no. 1:15-22 '64.

1. Institute of Mathematics, Polish Academy of Sciences,
Warsaw.

SZARSKI, P.

"Freezing Meat in Blocks." p.343
(PRZEMYSL ROLNY I SPOZYWCZY Vol. 6, no. 9, Sept. 1952 Warszawa, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

SZARSKI, P.

Activities of the Central Reserach Laboratory of the Meat Industry.   p.119

PRZEMYSL SPOZYWCZY.   (Stowarzszenie Naukowo-Techniczne Inzynierow i Technikow
Przemyslu Spozywczego) Warszawa, Poland
Vol.9, no.3, Mar. 1955

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.1, Jan. 1960

Uncl.

ZALSKI, S.

"Marking, Receiving, and Making use of Animal Blood.", p. 355, (GOSPODARKA MIESNA, Vol 6, No. 12, Dec. 1954, Warsaw, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5, May 1955, Uncl.

GRABSKI, B.

"Freezing Meat in Blocks", p. 10, (GOSPODARKA MIESNA, Vol. 7, No. 1,
Jan. 1955, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 5, May 1955, Uncl.

SZARSKI, P.

        Participation of the Institute of the Meat Industry in the discussion
on the 5-Year plan of the meat plants. p. 27

        GOSPODARKA MIESNA. (Polskie Wydawnictwa Gospodarcze) Warszawa. Vol. 8,
no. 2, Feb. 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress,
           Vol. 5, no. 7, July 1956.

CZARSKI, P.

Activities of the Institute of the Meat Industry. p. 36.   (Gospodarka Miesna,
Vol. 8, No. 7/8, July/Aug 1956, Warsaw, Poland)

SO: Monthly list of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

SZARSKI, P.

H.

POLAND/Food Processing Industry.

Abs Jour   : Ref Zhur - Khimiya, No 19, 1958, 65972

Author   : Szarski Pawel
Inst   : -
Title   : Concerning the Change of the Composition of Solder for
             Preserving Cans.

Orig Pub   : Przem. spozywczy, 1958, 12, No 1, 11-13.

Abstract   : On the basis of conducted investigations and on data in
             the literature, an alloy of 40% tin and 60% lead should
             be used insteal of an alloy of 63% tin and 37% lead.
             This measure has a great economic effect, taking into
             consideration the tin shortage.

Card 1/1

40

SZARVAS, Andras, dr.

Hygienic aspects of the occupation of the aged. Munkavedelem
6 no.7/9:29-31 '60.

SZARVAS ANDRAS, dr. (Kecskemet)

The role of social homes in services for tuberculous patients with special reference to incurable cases. Tuberkulozis 13 no.10: 292-294 O '60.

(TUBERCULOUS PATIENTS)

SZARVAS, Andras, dr. (Kecskemet)

Gerontological data on social-care home residents in Bacs-
Kiskun. Nepegeszsegugy 41 no.7:195-199 Jl '60.

(OLD AGE HOMES)

SZARVAS, Andras, dr.

Methods of employing older people as well as those with reduced working ability on collective farms. Munkavedelem 7 no.7/9: 42-47 '61.

1. Kecskemeti Szocialist Otthon.

SZARVAS, Andras, dr.

Geriatric aspects in the employment of aged workers in agricultural cooperatives. Orv. hetil. 103 no.10:466-468 Mr '62.

1. Kecskemeti Szocialis Otthon, Gerontologiai Rendelo.

(GERIATRICS)   (AGRICULTURE)

SZARVAS, Andras, dr.

Rehabilitation of heart patients in agriculture. Munkavedelem
9 no.4/6:51-53 '63.

1. Szocialis Otthon es Gertatriai Rendelo, Kecskement.

SZARVAS, Andras, dr.

Problems of rehabilitation in agriculture. Tuberkulozis 16 no.8:
238-240 Ag '63.

(TUBERCULOSIS, PULMONARY)
(AGRICULTURAL WORKERS' DISEASES)
(RURAL HEALTH)   (REHABILITATION)
(HEALTH EDUCATION)

SZARVAS, F.

Stablize and increase the average of wheat production with the correct
selection of species. p. 10. Vol 8, No. 9 Sept. 1956. ALLAMI GAZDASAG,
Budapest, Hungary.

SOURCE: East European List, (EEAL) Library of Congress Vol. 6, No. 1
January 1956.

SZARVAS, Ferenc, Dr.; VARRO, Vince, Dr.

Stasis syndrome of the afferent loop with positive Jordan test. Orv.
hetil. 100 no.9:340-342 1 Mar 59.

1. A Szegedi Orvostudomanyi Egyetem I. sz. Belgyogyaszati Klinikajanak
(igazgato: Hetenyi Geza dr. egyet. tanar) kozlemenye.
        (GASTRECTOMY, compl.
                afferent loop synd., diag., Jordan's test (Hun))

SZARVAS, Ferenc, dr.

On pharmacological and clinical aspects of alkyl phosphate poisoning.
Orv.hetil. 101 no.1:22-24 Ja '60.

1. Szegedi Orvostudomanyi Egyetem, I. sz. Belgyogyaszati Klinika.
(PHOSPHATES toxicol)

BENKO, Sandor, dr.; MACHER, Aniko, dr.; SZARVAS, FERENC, DR.; TIBOLDI,
        Tibor, dr.

        Effect of aromatic oils on atherosclerosis in rabbits caused by
        cholesterol diet. (Preliminary communication). Orv.hetil. 101
        no.27:949-950 3 Jl '60.

        1. Szegedi Orvostudomanyi Egyetem I. sz. Belgyogyaszati Klinikaja
                (ARTERIOSCLEROSIS exper)
                (OILS VOLATILE pharmacol)
                (CHOLESTEROL)

BALAZS, Viktor, dr.; CSERHATI, Istvan, dr.; SZARVAS, Ferenc, dr.;
        VARRO, Vince, dr.

Relationship between bacterial flora of the upper part of the
gastrointestinal tract and gastric acidity. Orv.hetil. 101 no.48:
1697-1700 27 N'60.

1. Szegedi Orvostudomanyi Egyetem, I. sz Belgyogyaszati Klinika.
        (GASTRIC JUICE)
        (GASTROINTESTINAL SYSTEM microbiol) .

O SZARVAS, F.

"Effect of essential oils on atherosclerosis of cholesterol-fed rabbits"
by S. Benko, A. Macher, F. SZARVAS, and T. Tiboldi, I Medical Clinic,
Szeged Medical University, NATURE, 20 May 1961.

VARRO, V.; JUNG, I.; CSERNAY, L.; SZARVAS, F.

A contribution to the study of some problems in ulcerative colitis.
Acta med. hung. 17 no.3/4:355-366 '61.

1. I Clinique de Medecine Interne de L'Université Medicale de Szeged,
(Dir.: Prof. M. Julesz)

(COLITIS ULCERATIVE)

VARRO, Vince, dr.; JUNG, Ibolya, dr.; CSERNAI, Laszlo, dr.; SZARVAS, Ferenc, dr.

Certain aspects of ulcerative colitis. Orv. hetil. 102 no.23:1072-1076
4 Je '61.

1. Szegedi Orvostudomanyi Egyetem, I sz. Belgyogyaszati Klinika.

(COLITIS ULCERATIVE)

SZARVAS, Ferenc, dr.; RAK, Kalman, dr.

A case of acute leukemia after a large-dose x-irradiation. (Some problems of radiation leukemia). Orv.hetil. 102 no.24:1128-1130 11 Je '61.

1. Szegedi Orvostudomanyi Egyetem, I. sz. Belklinika.

(RADIATION INJURY case reports)
(LEUKEMIA etiol)

SZARVAS, Ferenc, dr.; LAKATOS, Laszlo, dr.; DAVID, Margit, dr.; KOVACS, Kalman, dr.

Hypopituitarism with hyperlipemia.   Orv. hetil. 103 no.34:1618-1619 26 Ag '62.

1. Szegedi Orvostudomanyi Egyetem, I. Belklinika.
            (PITUITARY GLAND dis)   (LIPIDS blood)

HUNGARY

SZARVAS, F., BENKO, S., TIBOLDI, T., MACHER, A., DOMONKOS, G.; Medical University of Szeged, I. Medical Clinic and Agricultural Department of the City Council of Szeged (Szegedi Orvostudomanyi Egyetem I. sz. Belgyogyaszati Klinikaja es Szeged Varosi Tanacs Mezogazdasagi Osztalya).

"Investigations on the Effect of Rowaskleron on Chickens With a Quantitative Cholesterol Intake."

Abstract:[Authors' Hungarian summary] Atherosclerosis was induced on young cocks with a method suitable for a quantitative intake of cholesterol. The developing hypercholesterinemia, hyperlipemia and increase of β-lipoprotein was greatly reduced by Rowaskleron which contains terpenes. The treated group showed a macroscopically observable difference in the sclerosis of the thoracic aorta and fatty degeneration of the liver. The increase of the serum bilirubin level observed in the control group, was not found among animals treated with Rowaskleron. The data are insufficient for the determination of the mechanism of action but point to the role of the liver. 1 Hungarian, 10 Western references.
T/1

6

SZARVAS, Ferenc; SCHNEIDER, Imre; BENKO, Sandor

Examination of the effect of serotonin in the early phase of
liver damage caused by carbon tetrachloride. Kiserl., orvostud.
15 no.6:606-610. D '63.

1. Szegedi Orvostudomanyi Egyetem I Belklinikaja es Borklinikaja.
        (SEROTONIN) (PHARMACOLOGY)
        (CARBON TETRACHLORIDE POISONING)
        (ASPARTATE AMINOTRANSFERASE)
        (SUCCINATE DEHYDROGENASE)
        (LIVER ENZYMOLOGY)
        (HEPATITIS, TOXIC)

HUNGARY

SZARVAS, Ferenc. Dr, MACHER, Aniko, Dr; Medical University of Szeged, I. Medical Clinic (Szegedi Orvostudomanyi Egyetem, I. Belklinika).

"Some Questions of Chronic Hepatitis and Cirrhosis of the Liver (Based on Clinical Observations)."

Abstract: [Authors' Hungarian summary] In the last 10 years no significant change has been observed in the number of patients who had chronic hepatitis or cirrhosis. It is significant that the disease is twice as frequent among physicians as among others. Three-fourth of the patients with chronic hepatitis were under 50, while three-fourth of the cirrhotic patients were above 50 years of age. Above forty, both diseases, especially cirrhosis, are more frequent among men. Chronic hepatitis is mostly diagnosed by liver biopsy especially in cases where the disease, or a cirrhosis, imitates the symptoms of other diseases such as neurosis, cholecystopathy, chronic enteritis or hematological disorders. In general, no cirrhosis developed from cases of chronic hepatitis in a ten-year period. With the exception of the rapidly progressive cases, virus hepatitis does not increase the chances for cirrhosis unless it is accompanied by other liver damaging factors, most frequently alcoholism. 9 Hungarian, 10 Western references.

17

1/1

SZARVAS, Ferenc, dr.; HODI, Miklos, dr.; TISZAI, Aladar, dr.; KOVACS, Kalman, dr.

On fatty liver according to clinico-pathological analysis of 100 cases. Orv. Hetil.105 no.10:913-917 My 17 '64.

1. Szegedi Orvostudomanyi Egyetem, I. Belklinika.